



**PEX PIPING SYSTEM  
FOR WATER & GAS**

Product Guide





AS4176.2 & AS4176.3 WM74627  
AS4176.8 WM74629  
AS2492 WM74628 AS2537 WM74626



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# What is G-Pex Piping?

G-Pex piping system is the latest eco-friendly piping solution to hit the Australian construction market. Our products comprise of Pex-Al-Pex, Pex-B pipes and crimp on fittings for both water and gas plumbing applications.

We offer the best quality products with the best service and fast delivery Australia wide.

We are just a phone call away to assist plumbers and merchants.

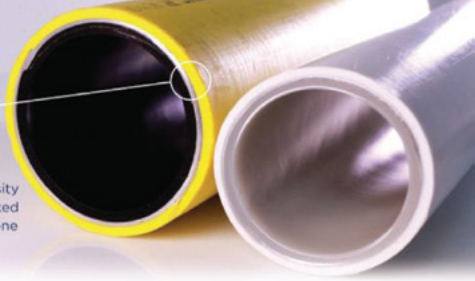
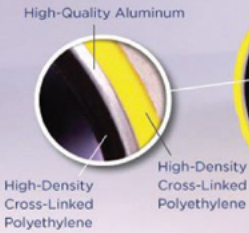


# Key Features & Benefits

G-Pex Pipe is a multilayer composite pipe is faster and easier to install than metal or rigid plastic pipes and has fewer connections and fittings.

- **One crimp-on fitting fits all G-pex pipes.** Easy for plumbers to manage.
- **Easy to install.** Only a few seconds to crimp a joint, reducing labour costs.
- **Flexible and bendable.** Less time is spent running pipe and installing fittings.
- **Resistant to extreme** temperatures, scale, chlorine and corrosion.
- **Withstands high pressure.** Tested to over 1600 kpa.
- **Eliminates water hammer noise and more efficient.** 30% better flow rate.
- **Extremely light weight.** Easy to carry.
- **No welding, brazing, soldering.**
- **Reliable.** 50 years life span.

# Pex-Al-Pex Pipe



G-Pex aluminum/plastic composite pipe is a five layered pipe. The pipe consists of a layer of welded aluminum with polyethylene inner and outer layers which are bonded together with a special purpose hot melt adhesive.

Pex pipe is widely used in plumbing and gas applications.



**COLD WATER PIPE**  
Blue



**HOT WATER PIPE**  
Red



**GAS PIPE**  
Yellow



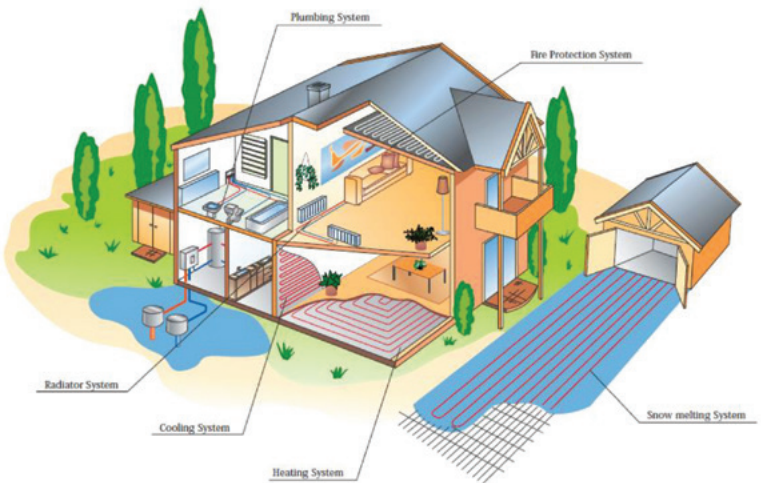
**RAIN WATER PIPE**  
Green



**RECYCLED WATER PIPE**  
Lilac

# Features

- Hygienic and non-toxic
- Lowering material and labour costs
- Low linear heat expansion co-efficient
- As rigid as metal
- Flexible and bendable
- High temperature and high pressure resistance
- Corrosion resistance
- The heat conduction coefficient is 1/200 of metal pipe
- Light weight
- Smooth surface
- Easily detected
- Convenient and reliable installation
- Long lifespan
- Oxidation resistance
- No welding necessary



# Pex-B Pipe

## Black | Anti-UV

Pex-B Pipe is a lower cost general purpose piping system for water and gas.

PEX-B pipe uses two layers:

### **Internal layer (White)**

Silicone crosslinked polyethylene which does not harm the environment. It has the capacity of heat-resistance for a long time and ageing resistance with innocuity as well as corrosion resistance.

### **External layer (Black)**

Mixed polyethylene, carbon black and oxidation inhibitor. It has excellent capacity of ultraviolet radiation resistance. Compared with current common metal pipes, it is more heat-preservative and energy-saving. It offers benefit to environmental protection.



**PEX-B PIPE**  
Black



# Pex-B Pipe

Blue | Red | Corrugated

PEX-B cross-linking polyethylene pipe adopts HDPE asthemain material.

Chemical covalent bonds formed in polyethylene molecular chains through cross-linking making molecules to create the three dimensional net structure. It provides good heat & pressure resistance and other physical and chemical performance.



**PEX-B PIPE**  
Blue



**PEX-B PIPE**  
Red



**PEX-B  
CORRUGATED  
PIPE**  
Blue



**PEX-B  
CORRUGATED  
PIPE**  
Red

# Crimp on DR Brass Fittings

One type of fitting fits Water, Gas, Pex-Al-Pex and Pex-B piping.

G-Pex crimp on fittings are specially designed and engineered to complement the G-Pex Pipe and comply to AS4176, AS4176.8 and AS2537.



All G-Pex fittings are made form solid DR brass (dezincification resistant quality) which can be used for water and gas and require no flame, heat or solvents when jointing to G-Pex Pipe.



# Tools



**Manual Press Clamp  
Tool set with Jaws**  
16mm  
20mm  
25mm  
32mm



**Pipe Cutter**  
16mm - 40mm



**Pipe Cutter**  
16mm - 32mm



**Battery operated  
Crimping Tool set  
with PEX jaws**  
16mm  
20mm  
25mm  
32mm

**Copper Jaws**  
15mm  
20mm  
25mm



**Rounder and  
Beveller**



**T-Reamer**



**Triangle  
Reamer**



**U-Profile Jaw  
for PEX**



**V-Profile Jaw  
for Copper**

# Tools

Battery operated crimping tool is easy to use, can reach corners, save time and labor and is only 3.2 kg.

## **Crimping tool set includes:**

4x jaws: 16mm, 20mm, 25mm, 32 mm

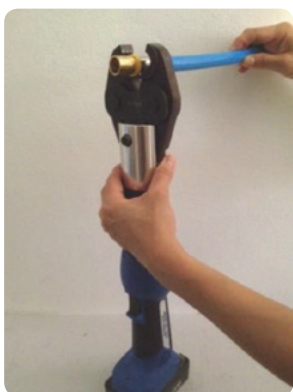
1x charger

2x batteries

## **Copper press jaws available in:**

DN15, DN20 and DN25





## Specifications Pex-AL-Pex

CODE	DESCRIPTION	PACKING	COLOUR	APPLICATION	MAX TEMP	WEIGHT (kg)
1216-LB	16mm Pipe x 2.0mm Thickness Pex-AL-Pex	50m Coil	Blue	Cold Water	60°C	5.50
1620-LB	20mm Pipe x 2.0mm Thickness Peax-AL-Pex	50m Coil	Blue	Cold Water	60°C	7.35
2025-LB	25mm Pipe x 2.5mm Thickness Pex-AL-Pex	50m Coil	Blue	Cold Water	60°C	11.15
2632 -LB	32mm Pipe x 3.0mm Thickness Pex-AL -Pex	50m Coil	Blue	Cold Water	60°C	16.40
CODE	DESCRIPTION	PACKING	COLOUR	APPLICATION	MAX TEMP	WEIGHT (kg)
1216-RR	16mm Pipe x 2.0mm Thickness Pex-AL-Pex	50m Coil	Red	Hot Water	95°C	5.50
1620-RR	20mm Pipe x 2.0mm Thickness Pex-AL-Pex	50m Coil	Red	Hot Water	95°C	7.35
2025-RR	25mm Pipe x 2.5mm Thickness Pex-AL-Pex	50m Coil	Red	Hot Water	95°C	11.15.40



CODE	DESCRIPTION	PACKING	COLOUR	APPLICATION	MAX TEMP	WEIGHT (kg)
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1216-Q	16mm Pipe x 2.0mm Thickness Pex-Al-Pex	50m Coil	Yellow	Gas	95°C	5.50
1620-Q	20mm Pipe x 2.0mm Thickness Pex-Al-Pex	50m Coil	Yellow	Gas	95°C	7.35
2025-Q	25mm Pipe x 2.5mm Thickness Pex-Al-Pex	50m Coil	Yellow	Gas	95°C	10.40
2632-Q	32mm Pipe x 3.0mm Thickness Pex-Al-Pex	50m Coil	Yellow	Gas	95°C	16.40

CODE	DESCRIPTION	PACKING	COLOUR	APPLICATION	MAX TEMP	WEIGHT (kg)
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1216-G	16mm Pipe x 2.0mm Thickness Pex-Al-Pex	50m Coil	Green	Rain Water	95°C	5.50
1620-G	20mm Pipe x 2.0mm Thickness Pex-Al-Pex	50m Coil	Green	Rain Water	95°C	7.35

CODE	DESCRIPTION	PACKING	COLOUR	APPLICATION	MAX TEMP	WEIGHT (kg)
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1216-LR	16mm Pipe x 2.0mm Thickness Pex-Al-Pex	50m Coil	Purple	Recycled Water	95°C	5.50
1620-LR	20mm Pipe x 2.0mm Thickness Pex-Al-Pex	50m Coil	Purple	Recycled Water	95°C	7.35

## Specifications Pex-B

CODE	DESCRIPTION	PACKING	COLOUR	APPLICATION	MAX TEMP	WEIGHT (kg)
1216-X	16mm Pipe x 2.0mm / PN 16 / SDR 9	50m Coil	Black	Cold & Hot Water	95°C	5.25
1620-X	20mm Pipe x 2.0mm / PN 16/ SDR 11	50m Coil	Black	Cold & Hot Water	95°C	6.70
2025-X	25mm Pipe x 2.5mm / PN 16 / SDR 11	50m Coil	Black	Cold & Hot Water	95°C	8.15

CODE	DESCRIPTION	PACKING	COLOUR	APPLICATION	MAX TEMP	WEIGHT (kg)
1216-XB	16mm Pipe x 2.0mm / PN 16 / SDR 9	50m Coil	Blue	Cold Water	60°C	5.25
1620-XB	20mm Pipe x 2.0mm / PN 16 / SDR 11	50m Coil	Blue	Cold Water	60°C	6.70

CODE	DESCRIPTION	PACKING	COLOUR	APPLICATION	MAX TEMP	WEIGHT (kg)
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1216-XR	16mm Pipe x 2.0mm / PN 16 / SDR 9	50m Coil	Red	Hot Water	95°C	5.25
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1620-XR	20mm Pipe x 2.0mm / PN 16 / SDR 11	50m Coil	Red	Hot Water	95°C	6.70
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CODE	DESCRIPTION	PACKING	COLOUR	APPLICATION	MAX TEMP	WEIGHT (kg)
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1620-XBC	20mm Corrugated Pipe x 2.0mm /PN 16 / SDR 11	50m Coil	Blue	Cold Water	60°C	9.60
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CODE	DESCRIPTION	PACKING	COLOUR	APPLICATION	MAX TEMP	WEIGHT (kg)
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1620-XRC	20mm Corrugated Pipe x 2.0mm / PN 16/ SDR 11	50m Coil	Red	Hot Water	95°C	9.60
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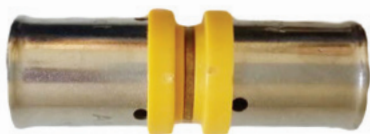
CODE	DESCRIPTION	PACKING	COLOUR	APPLICATION	MAX TEMP	WEIGHT (kg)
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1620 -QC	20mm Corrugated Pipe x 2.0mm /PN16/ SDR11	50m Coil	Yellow	Gas	95°C	9.60
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# Specifications

## Crimp on DR Brass Fittings

### Straight Coupling (No.1)



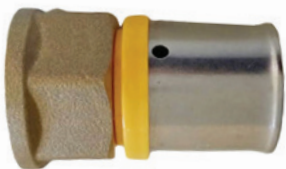
CODE	PACKING (units/bag)	DESCRIPTION	WEIGHT (kg/bag)	UNITS (P/box)
N1-16	10	16mm	0.357	500
N1-20	10	20mm	0.488	260
N1-25	5	25mm	0.462	180
N1-32	5	32mm	0.722	120

### Reducing Coupling (No.1R)



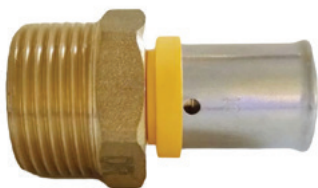
CODE	PACKING (units/bag)	DESCRIPTION	WEIGHT (kg/bag)	UNITS (P/box)
N1R-2016	10	20mmx 16mm	0.421	300
N1R-2516	5	25mmx 16mm	0.335	150
N1R-2520	5	25mmx 20mm	0.371	150
N1R-3225	5	32mmx 25mm	0.605	150

## Female Union (No.2)



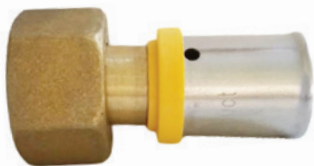
CODE	PACKING (units/bag)	DESCRIPTION	WEIGHT (kg/bag)	UNITS (P/box)
N2-16050	10	16mm x 1/2"	0.503	300
N2-16075	10	16mm x 3/4"	0.778	240
N2-20050	10	20mm x 1/2"	0.563	200
N2-20075	10	20mm x 3/4"	0.809	200
N2-25075	5	25mm x 3/4"	0.505	150
N2-25100	5	25mm x 1"	0.605	120

## Male Union (No.3)



CODE	PACKING (units/bag)	DESCRIPTION	WEIGHT (kg/bag)	UNITS (P/box)
N3-16050	10	16mm x 1/2"	0.473	300
N3-16075	10	16mm x 3/4"	0.634	200
N3-20050	10	20mm x 1/2"	0.528	300
N3-20075	10	20mm x 3/4"	0.684	200
N3-25075	5	25mm x 3/4"	0.447	150
N3-25100	5	25mm x 1"	0.625	120

## Loose Nut Female Adaptor (No.62)



CODE	PACKING (units/bag)	DESCRIPTION	WEIGHT (kg/bag)	UNITS (P/box)
N62-16050	10	16mm x 1/2"	0.596	300
N62-20050	10	20mm x 1/2"	0.672	300
N62-20075	10	20mm x 3/4"	0.867	200

## Equal Elbow (No.12)



CODE	PACKING (units/bag)	DESCRIPTION	WEIGHT (kg/bag)	UNITS (P/box)
N12-16	10	16mm	0.496	300
N12-20	10	20mm	0.695	100
N12-25	5	25mm	0.634	100
N12-32	5	32mm	0.534	60

## Unequal Elbow (No.12R)



CODE	PACKING (units/bag)	DESCRIPTION	WEIGHT (kg/bag)	UNITS (P/box)
N12R-2016	10	20mm x 16mm	0.620	200
N12R-2516	5	25mm x 16mm	0.445	150
N12R-2520	5	25mm x 20mm	0.495	150

## Male Elbow (No.13)



CODE	PACKING (units/bag)	DESCRIPTION	WEIGHT (kg/bag)	UNITS (P/box)
N13-16050	10	16mm x 1/2"	0.496	300
N13-20050	10	20mm x 1/2"	0.642	200
N13-20075	10	20mm x 3/4"	0.816	200
N13-25075	5	25mm x 3/4"	0.540	150
N13-25100	5	25mm x 1"	0.658	100

### Female Elbow (No.14)



CODE	PACKING (units/bag)	DESCRIPTION	WEIGHT (kg/bag)	UNITS (P/box)
N14-16050	10	16mm x 1/2"	0.645	300
N14-20050	10	20mm x 1/2"	0.783	200
N14-20075	10	20mm x 3/4"	0.919	150
N14-25075	10	25mm x 3/4"	1.257	150
N14-25100	10	25mm x 1"	1.565	100

### Wall Plated Female Elbow (No.15 BP)



CODE	PACKING (units/bag)	DESCRIPTION	WEIGHT (kg/bag)	UNITS (P/box)
N15-16050	10	16mm x 1/2"	1.026	120
N15-20050	10	20mm x 1/2"	1.118	120
N15-20075	10	20mm x 3/4"	1.300	100

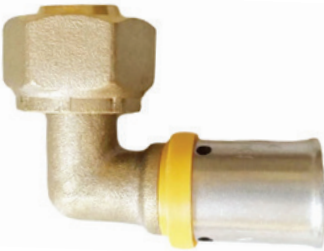


### Wall Plated Male Elbow (No.19 BP)



CODE	PACKING (units/bag)	DESCRIPTION	WEIGHT (kg/bag)	UNITS (P/box)
N19-1605065	5	16mmx1/2"x65mm	0.590	100
N19-1605090	5	16mmx1/2"x90mm	0.704	100
N19-2005065	5	20mmx1/2"x65mm	0.600	100
N19-2005090	5	20mmx1/2"x90mm	0.790	100
N19-2007590	5	20mmx3/4"x90mm	1.140	60
N19-16050180	5	16mmx1/2"x180mm	1.300	500

### Loose Nut Female Elbow (No.63)



CODE	PACKING (units/bag)	DESCRIPTION	WEIGHT (kg/bag)	UNITS (P/box)
N63-16050	10	16mm x 1/2"	0.693	240
N63-20075	10	20mm x 1/2"	0.883	200

## End Cap (No.61)



CODE	PACKING (units/bag)	DESCRIPTION	WEIGHT (kg/bag)	UNITS (P/box)
N61-16	10	16mm	0.280	500
N61-20	10	20mm	0.432	400
N61-25	10	25mm	0.773	200
N61-32	10	32mm	1.2	200

## Pex to Copper Adaptor



CODE	PACKING (units/bag)	DESCRIPTION	WEIGHT (kg/bag)	UNITS (P/box)
BN100-1615	10	16mm x 15mm	0.496	300
BN100-2020	10	20mm x 20mm	0.642	200
BN100-2525	10	25mm x 25mm	0.816	200
BN100-3232	5	32mm x 32mm	0.540	150

## Equal Tee (No.24)



CODE	PACKING (units/bag)	DESCRIPTION	WEIGHT (kg/bag)	UNITS (P/box)
N24-16	5	16mm	0.335	150
N24-20	5	20mm	0.472	120
N24-25	5	25mm	0.870	60
N24-32	5	32mm	1.46	30

## Unequal Tee (No.25, 26, 27, 28)



CODE	PACKING (units/bag)	DESCRIPTION	WEIGHT (kg/bag)	UNITS (P/box)
N28-162016	5	16x20x16mm (#28)	0.406	100
N28-162516	5	16x25x16mm (#28)	0.538	100
N25-201620	5	20x16x20mm (#25)	0.450	150
N26-202016	5	20x20x16mm (#26)	0.454	120
N28-202520	5	20x25x20mm (#28)	0.649	90
N27-251620	5	25x16x20mm (#27)	0.580	100
N27-201616	5	20x16x16mm (#27)	0.408	150
N25-251625	5	25x16x25mm (#25)	0.693	80
N27-252020	5	25x20x20mm (#27)	0.645	90
N25-252025	5	25x20x25mm (#25)	0.751	70
N26-252520	5	25x25x20mm (#26)	0.795	70
N25-322032	5	32x20x32mm (#25)	1.16	40
N25-322532	5	32x25x32mm (#25)	1.263	40



# Installation Guide



01

Cut the pipe to required length with the special pipe cutter.



02

Ream the pipe by pushing the reamer into the pipe and turning. This cuts the pipe end straight while cutting chamfers on the inside and outside of the pipe end. The design of the reamer will prevent shavings from falling into the pipe.



03

Inspect the stainless steel sleeve for any cracks and then fit it over the pipe to be flush with pipe end.



04

Carefully push the fitting into the pipe until it clips into the white collar without dislocating the O-rings, and without moving the sleeve away from the pipe end.



05

Crimp the sleeve with a crimping tool. Locate the tool's jaws tight against the collar. Compress the sleeve by closing the crimping tool until the handles meet and make a "clicking" sound. Do this only once.



06

Visually inspect the fitting and test the crimp with the crimp gauge if needed.

# Warranty

All G-Pex Pipes carry a 25 year warranty and are also backed by a products and public liability insurance policy to the value of AUD \$20 million dollars from GIO Insurance.



## Technical Data Pex-AL-Pex

<b>Thermal Conductivity</b>	0.45W/m*k
<b>Coefficient of thermal expansion</b>	0.025mm/m*k
<b>Bend radius</b>	>= 5D (D = outside diameter)
<b>Working temperature (°C)</b>	-40°C -95°C
<b>Oxygen-permeability</b>	0% (Nil)
<b>Burning Resistance</b>	Grade B1 of GB8624
<b>Burst pressure at 25 °C</b>	16mm=7.6 Mpa 20mm=5.8 Mpa 25mm=5.2 Mpa
<b>Max. Working Pressure</b>	PN 16
<b>Other</b>	Static-free, non-corrosive, 50 years life span



## Technical Data Pex-B

<b>Thermal conductivity</b>	0.35-0.46W/m*k
<b>Coefficient of thermal expansion</b>	0.2 mm/m*k
<b>Bend radius</b>	>= 8D (D = outside diameter)
<b>Working temperature (°C)</b>	-40°C -95°C
<b>Oxygen-permeability</b>	0% (Nil)
<b>Burning Resistance</b>	123°C
<b>Burst pressure at 25 °C</b>	16mm=6.2 Mpa 20mm=4.8 Mpa
<b>Max. Working Pressure</b>	PN 16
<b>Other</b>	Static-free, non-corrosive, 30 years life Span

# Projects / Case Studies

G-Pex piping system has been used in many projects throughout NSW.

We herein thank all the plumbers who have supported us. We look forward to help more plumbers in the future by making their jobs quick and easy.



**North Ryde  
NSW**  
179 Units



**Lane Cove  
NSW**  
213 Units



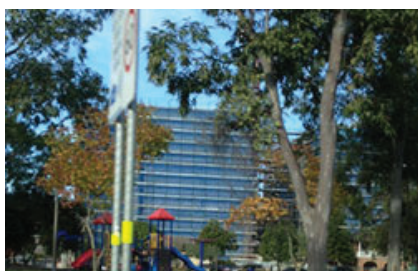
**Liverpool  
NSW**  
30 Units  
+ Retail



**Burwood  
NSW**  
128 Units



**Lane Cove  
NSW**  
75 Units



**Liverpool  
NSW**  
124 Units



**Canterbury  
NSW**  
46 Units



**Strathfield  
NSW**  
42 Units

# Certificates

G-Pex piping system is manufactured under the WaterMark Licence and is approved for use in all states and territories within Australia. The installation method must follow the specified AS/NZS 3500, Parts 1, 4 and 5 of the National Plumbing Code and the G-Pex Installation Guide. G-Pex's 25 year warranty covers pipelines against manufacturing defects from the date of manufacture (conditions apply).

The standards: AS4176.2 is for Pex-Al-Pex pipes, AS4176.3 is for Pex-Al-Pex fittings, AS2492 is for Pex-B pipes and AS2537 is for Pex-B fittings. The standard, AS4176.8 is for Pex-Al-Pex gas pipes and fittings. All certificates must be shown in order for one fitting to fit all pipes.

An important circumstance to note is Pex-B pipes can not be used with Pex-Al-Pex fittings without the AS2537 certificate, even if the supplier has both AS4176 and AS2492 certificates. Insurance companies will not compensate for any damages that have not met this standard requirement.



**AS4176.2 & AS4176.3  
WM 74627**

Pex-Al-Pex pipes and fittings for Water



**AS4176.8  
WM 74629**

Pex-Al-Pex pipes and fittings for Gas



**AS2492  
WM 74628**

Pex-B pipes



**AS2537  
WM 74626**

Pex-B fittings







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